

Substitute Abstract:

Please substitute the abstract indicated below for the abstract as previously presented.

A digitizing system and rotary table for determining the three dimensional geometry of an object is described. An apparatus includes at least one sensor that detects information describing the three-dimensional geometry of the object and provides the information to a host computer. A rotary table includes a base and a turntable rotatable about an axis positioned perpendicularly to the turntable surface. The turntable and object on its surface rotate about the axis, during or between the sensor detecting the information describing the three-dimensional geometry of the object. A turntable sensor coupled to the base measures the rotation of the turntable, where the turntable sensor outputs turntable data indicative of the rotation to the host computer.